

Title (en)
LED module for a flat panel display unit.

Title (de)
LED-Modul für eine ebene Anzeige-Einheit.

Title (fr)
Module LED pour un dispositif d'affichage plat.

Publication
EP 0042122 A2 19811223 (EN)

Application
EP 81104364 A 19810605

Priority
JP 7893880 A 19800613

Abstract (en)
One surface of a substrate of an LED module for a flat panel display has 8 x 8 element areas (2) divided into a matrix form. Row electrodes (6-1 to 6-8) extend on element areas (2) arranged along the row direction, and column electrodes (8-1 to 8-8) insulated from the row electrodes (6-1 to 6-8) extend on element areas (2) arranged in the column direction. At least one LED pellet (8) is disposed for each element area (2) and is connected to the row and column electrode (6-1 to 6-8), 8-1 to 8-8) associated with this area. A connecting pad (14) is disposed as spaced apart from the four pellets (8) in a unit area (12) defined as a region consisting of four element areas (2). This connecting pad (14) is connected to one of the row and column electrodes in the four element areas (2) and is also connected through the substrate to a connecting pin arranged on the other surface of the substrate of the LED module.

IPC 1-7
G09F 9/33; **H01L 25/04**

IPC 8 full level
G09F 9/33 (2006.01); **H01L 33/56** (2010.01); **H01L 33/62** (2010.01); **H01L 25/075** (2006.01)

CPC (source: EP KR US)
G09F 9/3026 (2013.01 - EP KR US); **G09F 9/33** (2013.01 - EP KR US); **H01L 25/0753** (2013.01 - EP US); **H01L 2224/32225** (2013.01 - EP US); **H01L 2224/45144** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP US); **H01L 2224/48227** (2013.01 - EP US); **H01L 2224/48228** (2013.01 - EP US); **H01L 2224/48464** (2013.01 - EP US); **H01L 2224/73265** (2013.01 - EP US)

C-Set (source: EP US)
1. **H01L 2224/48091 + H01L 2924/00014**
2. **H01L 2224/73265 + H01L 2224/32225 + H01L 2224/48227 + H01L 2924/00**
3. **H01L 2224/45144 + H01L 2924/00014**

Cited by
EP0206176A3; EP0182254A3; US9093009B2

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0042122 A2 19811223; **EP 0042122 A3 19820505**; **EP 0042122 B1 19860312**; DE 3174041 D1 19860417; JP S575083 A 19820111; JP S612949 B2 19860129; KR 830005618 A 19830820; KR 840002362 B1 19841221; US 4445132 A 19840424

DOCDB simple family (application)
EP 81104364 A 19810605; DE 3174041 T 19810605; JP 7893880 A 19800613; KR 810000118 A 19810117; US 27003081 A 19810603